The following claim listing is meant to replace all previous claim listing.

- 1. (Currently amended) A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a methyl transferase catalyzing the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid into a plant cell, a plant tissue or a seed of a plant;
 - regenerating a transgenic plant from the plant cell, the plant tissue or the seed of the plant wherein said transgenic plant produces branched fatty acids; and
 - c. recovering said branched fatty acids from said transgenic plant.
 - 2. (Previously presented) The process according to claim 1, further comprising the step of extracting the branched fatty acids.
- 3-11 (Cancelled)
- 12. (Currently amended) A recombinant nucleic acid comprising:
 - a nucleic acid coding for a methyl transferase,
 - a plant expressible promoter, and, a 3' transcription termination region.
 - in the following order:
 - a. a plant expressible promoter regulating the expression of a nucleic acid coding for a methyl transferase catalyzing the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid;
 - b. a nucleic acid coding for said methyl transferase; and
 - c. a 3' transcription termination sequence.
- 13. (Previously presented) The nucleic acid according to Claim 12, wherein the promoter expresses the nucleic acid in a seed of a plant.
 - 14 16 (Cancelled)

- 17. (Previously presented) A vector comprising a recombinant nucleic acid according to claim 12.
- 18. (Previously presented) A plant cell comprising a recombinant nucleic acid according to Claim 12.
- 19. (Cancelled)
- 20. (Previously presented) A transgenic plant comprising at least one cell according to claim 18.
- 21. (Previously presented) A transgenic plant comprising at least in one part of its cells, a nucleic acid according to Claim 12.
- 22. (Cancelled)
- 23. (Previously presented) A process for preparing branched fatty acids from a transgenic plant whose cells contain a recombinant nucleic acid according to Claim 12, comprising:

culturing said transgenic plant in field; recovering the seeds from said transgenic plant; and extracting the branched fatty acids from these seeds.

24 - 29 (Cancelled)

- 30. (Currently amended) The plant cell according to claim <u>18</u> 19, wherein said eleaginous plant cell is colza, sunflower, peanut, soya, flax or maize.
- 31. (Previously presented) The process according to claim 1, further comprising the steps of :

culturing said plant cell in a medium suitable for growth; and

extracting and purifying the branched fatty acids from said plant cell or from the supernatant of said medium.

- 32. (Currently amended) The nucleic acid according to Claim 12, wherein the plant expressible promoter is a nopaline synthase promoter region (nos) or an octopine synthase promoter region (ocp) or a mannopine promoter region or a agropine promoter region or an acyl carrier protein promoter region (ACP).
- 33. (Currently amended) The nucleic acid according to Claim 12, wherein the plant expressible promoter is an acyl carrier protein promoter region (ACP) or a napine promoter.
- 34. (Previously presented) The nucleic acid according to Claim 12, wherein the plant expressible promoter is a promoter of a 35S cauliflower mosaic virus gene or a promoter of a 19S cauliflower mosaic virus gene.